Division: Sub-Division: **Shettyhalli**

Bill Received No. 291 Dated 30.8.2013 Cash Book Vocher No. Dated

Scheduled Docket No 13-14 Head of Account

Name of work (as Per Sanctioned Estimate.):**Drilling of Borewell and providing pumping machinery and pipeline for supply of water to chikkasandra, Medarahalli, Abbigre, Kammagondanahalli in ward No. 12 Shettyhalli Sub division.**

Name of Contractor and Full Address: :-**Technical Manger (west) Karnataka Rural Infrastructure Development Limited, Project Implementation Unit, Madhavanagara Bangalore 560 00.**

Reference to Agreement No:

Certified that the measurements were taken by me on 26/8/13 and recorded in pages 83103 - 83120.

Measurements Book No. 832/13-14 and that the work is satisfaction executed

Contractor Signature Technical Manager (TM-2) Officer-in-charge of work. Asst. N.I.C 26/8/13

Certified that the measurements were taken by me on 26/8/13 and found correct. The work is satisfactorily executed

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Amt 26/8/13

If Memorandum of Payment **Work Code No. 012-12-0000048** Division Officer

		Amount
1	Total Value of work done or supplies made as per account. 83118	Bill upto date 7540070=00
2	Deduct amount to be held in reserve being ..... Percent Rs.	
3	Deduct amount to be held in reserve being balance	Pre Paid - 5997308=00
4	Deduct payments:	Il & Final 1542762=00
	a) Amount of previous payment as in the office Cash Book Vocher No..... Dated..... S.D. No.....	
	Amount adjusted towards cash advance recovery of	IT - 30855-
	b) Payments cost store or other materials supplied.	KST - 61710-
5	Balance being unpaid value of work done held in reserve	WC - 15428-
6	Deduct cash advance made on the office cash book vehicle No.....	Total.....
	Dated..... Less adjustments 1542762=00	CBF - 1543-
7	Net amount due to or from contractor	Pen - 3000-
	Unadjusted items	FSD - 77138-
	Advance to contractor for materials brought to site (as detailed) within value of	ped - 189674=00
	Government materials supplied.	Net 1353088=00
	Government materials supplied 189674=00	

Audited and admitted Rs. 1353088=00

Passed by Cheque for Rs.

by adjustment Rs.

Executive Engineer 28/8/13

Accounts Superintendent 28.8.13 Hoggenahalli Division

Contractor Signature

Received Rs. (in words)

By cash and/or adjustment of payment as per memorandam.

Witnesses

1

2

Technical Manager (TM-2) KRIDL, Dasarahalli Zone, Bangalore

(for use in the office)

Date

Paid by me by cheque Dated

Cash Rs. Dated

Initials of officer making payment dated

Signature of Contractor

Executive Engineer

1	Carrying out geophysical survey Geophysical investigation of site for sinking Borewell for supplying water to the Habitation either through the hand pump, MWS O PWSS by vertical electrical s)nding by veneer or Schlumbergers's method, including reconnaissance survey of Geological formation, Ge investigation of existing ground water in the vicinity, its quality, quantity & acceptability of the users indic location of site, recommended depth of casing pipe required to seal the top unconsolidated formation inc extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling re cover full depth of aquifer proposed to be tapped, probable yield and other information required transportation of instrument and accessories to work site, engaging technical personal and labour require
2	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 90 above in all strata including over burdern upto 20 M. fixing of casing pipes, collars and cap with necessar threading and welding including transportation of rig and supporting vehicle, crew charges and consumables etc., complete including yield testing at the final depth with a minimu working of compress hour (excluding cost of casing pipes, collars, cap etc.,)
a	Upto 50.00m depth
b	50.00 to 100.00 mtr
c	100.00 to 150.00 mtr
d	150m to 200 mtr
e	200m up to 250 mtr
f	250mtrs to 300.00 mtr
	300mtr to 310m mtr
3	Supplying of ISI Mark 175mm Nominal bore plain end steel casing pipe-grade of steel Fe 410, of wall 5.4mm thick confirming to IS 4270:2001 and latest emendments electric resistance welded steel tube ma confirming to IS 1387/1993 and manufactured by basic open hearth electric or basic oxyzen process i length of 4 to 7 Mts, Both ends threaded confirming to IS 554/1985, one end fixed with a socket confirr 4270:2001 and the other end with screwed pipes. all pipes shall be reasonably straight should be with IS welding, weighing 25.10 kg/mtr (inclusive of all taxes and duties) Prices include collar medium duty
a	Casing pipe
4	Additional rate on item N. 2 is allowed for drilling in ver burden and folling casing pipes beyond 20m 15% and beyond 30.mtrs 30% on basic rate of R.s 287 is aoolwe complet as erp specification.
a	Above 20 mtrs and Upto 30 mtrs at
b	Above 30 mts
5	Providing 175 mm dia MS collar (RDED)
6	Providing 175 mm dia MS Complete as per Specification.
7	Supplying and delivery at site brand new Texmo/innoval/Lubi/Sabar/Atalanta/Calamal/Waterman/Ra suitable HP deep well submersible pumpset suitable for vertical installation in 150mm dia borewells com sinle stage or multistage CF pump close coupled by means of stainless steel coupling to suitable H speed totally enclosed and filled with pure drinking water (West type) squirrel cage submersible indu suitable for operation of 3Ph 50Hz 380/440 volts AC supply fitted with required acessories such a casing suction strainers. sand guard None return valve etc., complete as per specification
8	Supply and Drawing 3 core Flat PVC shalted subersible Pump cable Manufactured with Electrolytic Grad with Flexibel copper conductor to table 3 class 5 of IS 8130-1984 and Cirgen PVC insulation and suitable for working volatage upto 1100 VOlts compelte as per specifications.
9	Supplying and fixing 50mm Non Return Vavle of Vertical type of approved make including cost of all labour Hom of equipment with all leads complete as per specification.s
10	Suplying and fixing 50mm GM gae valve compete as per specificiation.
11	Sypplying and fixing 160 mm Borewell cap with clampset complete as per specification
12	Supplying and fixing 50mm GIM union (As per Rate approved by Se RDED Letter NO. 2081/2010-11 C per specification.
13	Supplying and fixingn 50mm GI Elbow (As per rate apprved SE RDED)
14	Supply and fixing 50mm GI coller Heavy duty complet3e as per specification

rinking dopting hysical ing the ding an uired to cluding etc.	Nos	9.00	1900.00	17100.00	1.00	1900.00	1900.00	10.00	19000.00
CMF & cutting, cost of for one									
	Mtr	450.00	287.00	129150.00	50.00	287.00	14350.00	500.00	143500.00
	Mtr	450.00	379.00	170550.00	50.00	379.00	18950.00	500.00	189500.00
	Mtr	450.00	422.00	189900.00	50.00	422.00	21100.00	500.00	211000.00
	Mtr	450.00	464.00	208800.00	50.00	464.00	23200.00	500.00	232000.00
	Mtr	450.00	513.00	230850.00	50.00	513.00	25650.00	500.00	256500.00
	Mtr	450.00	550.00	247500.00	50.00	550.00	27500.00	500.00	275000.00
	Mtr	100.00	550.00	55000.00	10.00	550.00		100.00	55000.00
ickness erial and random ng to IS making,	Mtr								
	Rmtr	368.60	1325.00	488395.00	66.00	1325.00	87450.00	434.60	575845.00
s rate at									
	Mtrs	90.00	43.05	3875.00	10.00	43.05	431.00	100.00	4305.00
	Mtrs	40.00	86.10	3444.00	0.00			40.00	3444.00
	No	65.00	150.00	9750.00	11.00	150.00	1650.00	76.00	11400.00
	No	9.00	100.00	900.00	1.00	100.00	100.00	10.00	1000.00
na/make resing of suitable tion otor suction	No	9.00	52000.00	468000.00	1.00	52000.00	52000.00	10.00	520000.00
Copper heeated	Mtr	5000.00	151.00	755000	510.00	151.00	77010.00	5510.00	832010.00
naterials	Nos	9.00	1530.00	13770	1.00	1530.00	1530.00	10.00	15300.00
	Nos	9.00	1430.00	12870.00	1.00	1430.00	1430.00	10.00	14300.00
mplet as	Nos	9.00	690.00	6210.00	1.00	690.00	690.00	10.00	6900.00
	Nos	9.00	245.00	2205.00	1.00	245.00	245.00	10.00	2450.00
	Nos	27.00	120.00	3240.00	3.00	120.00	360.00	30.00	3600.00
	Nos	398.00	170.00	67660.00	44.00	170.00	7480.00	442.00	75140.00

15	Supplying and delivery at site brand new / Essen / Lotus sunsines / Adarsn / GK controls best indigenous make combine energy meter - cum - controlpanel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof The unit shall have two detachable doors suitable for operation on 3ph. 50Hz, 380/440 volts. AC supply with spring loaded latch locking with a key ribs should be provided inside the door canopy apron and louvers ventilators shall be provided the combine energy meter cum - control panel board unit suitable for operation on 3ph. 50Hz, 380/440 AC supply shall be consisted etc.. complete T panel board shall be febricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 12.5 HP with Star Delta Starter	Nos	9.0
16	Providng and fixing of 50mm G I pipe C class heavy duty foe erection of submersible pumpset complete as epr specification.	Mtrs	238
17	Erection of combined panel board and meter sunit with necessary materials and labour including providng cement concrete foundation bed cont door tupe etc., complete .	Nos	9.
18	Supplying of TPSt with rewireable procelian channesl in SM encloser 15/32	Nos	9.
19	Supplying and fixing 500x500x65mm polished wood board made upt not less than 15mm thick plan in fornt plank one end provided for olding at other end fixing the same of the valve using through bolts and nuts	Nos	9.
20	Supplying and fixing LED Type panel board indicating lamp with required colur suitable for 220xAC 50Hz 12/24 V CD group B	Nos.	9.
21	Suplying and drawing each PVC insulate d650/100 V grade wire in the conduct	Nos.	90
22	Supplying fixing and wiring heavy duty low voltage capactior confirming to 2834 3 phase 400/440 Volts grade for power facotr improvement of rotating machinery capactitor in KVAR rating.	Nos	
23	Supplying and fixn miniature cirucuit breakers on exisitn MCB distribution board using ncessary fixing mateirals. And wiring complete as per specification.		9
24	Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit./ The pit should be filled with equal proportion of salt and charocoal 150 mm alround the pipe to complete depth The connections from the pipe to the conduit etc,. is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 122 mm dia	Nos	9
25	Supplying and fxing class A (medium duty) GI pipe wall thickness not less than 3.25 mm on pole.	Nos	9
26	Supplying 1.1 KV class UG calbe from nearest BESCOM pole to panel board inlcluding earth work and road restoration 4 core 16 sqmm	Mtr	31
27	Labour charges for laying 1.1 KV Class UG cable when suplied by agencies in existing trenches GI pipe/atoneware piep. On oles as required	Mtr	31
28	Digging of trench of 0.6 m deep x 0.5 m wide refilling the tgrench to the requried level and consolidating etc., compelte as per specification	Mtr	27
29	Supplying fixing LT cast iron pot heads suitable for 1.1 KV Class UG calbe filled wioth necessary bitumen / insulating compound compelete with terminals clamps bolts, nuts washers etc., complete as per specification.	Nos.	9
30	Supplying and fixing of prcelian fuse channel with cut out one existing / new wooden panel using necessary nuts botls and washers et.c omplete.	Nos	5
b	BESCOM deposit chartes	Ls	
31	KSRB 2-2.2: Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in hard soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification.	Cum	21
32	Providing and installing at site work PVC pipes inclidng costg of pipes and specials labour including lowering into trenches layingy true to line level and perfect linking at joints leak proof inclidng jointing of apprvoed type with all labour and lift charges handling charges including encasign the piep alround to a depth not less than 15cms with gravel or selected earth available from the excavation et.c,	Rmtr	46
33	Supplying and fixing 50mm GI pipes C class heavy duty compelte as per specifications.	Rmtr	
34	Refilling avaialbe earth around pipe lines calbes in layers not exceeding 20cms in depth compacting each deposited layer by ramming after watering with lead upt 50m and lift upto 1.5 including cost of all labour compelte as per specificaiton	Cum	2
35	Transporation of pumping machineries compelte as epr specificaiton.	No	
36	Erection of pumping machineries compete as per specificaiton.	No.	

CERTIFICATE

1. This is to certify that the contractor has completed the work satisfactorily
2. The contractor has cleared the debries from the work sport
3. The contractor has used his own vehicles for the coveying the debries
4. There are no departmental issues for the above work

Ravi. N.K.

Ravi. N.K.

	10000.00	90000.00	1.00	10000.00	10000.00	10.00	100000.00
00	402.75	959351	218.00	402.75	87800.00	2600.00	1047150.00
	475.00	4275.00	1.00	475.00	475.00	10.00	4750.00
	1350.00	12150.00	1.00	1350.00	1350.00	10.00	13500.00
	275.00	2475.00	1.00	275.00	275.00	10.00	2750.00
	350.00	3150.00	1.00	350.00	350.00	10.00	3500.00
0	25.00	2250.00	10.00	25.00	250.00	100.00	2500.00
	350	1050				3.00	1050.00
0	1075.00	9675.00	1.00	1075.00	1075.00	10.00	10750.00
0	1500.00	13500.00	1.00	1500.00	1500.00	10.00	15000.00
0	220.00	19800.00	10.00	220.00	2200.00	100.00	22000.00
00	150.00	47250.00	35.00	150.00	5250.00	350.00	52500.00
00	5.00	1575.00	35.00	5.00	175.00	350.00	1750.00
00	50.00	13500.00	30.00	50.00	1500.00	300.00	15000.00
00	240.00	2160.00	1.00	240.00	240.00	10.00	2400.00
00	100.00	5400.00	6.00	100.00	600.00	60.00	6000.00
2.49	190.8	401138	1386.45	190.00	264535.00	3488.00	665689.00
2.00	119.00	555968.00	3081.00	119.00	366639.00	7753.00	922607.00
00	402.00	21346.00	540.00	402.75	21748.00	593.00	238830.00
2.49	51.41	108089.00	14 80 251.13	51.41	76086 ~~129200.00~~	3582 ~~4615.00~~	184150- ~~237289.00~~
00	850.00	7650.00	1.00	850.00	850.00	10.00	8500.00
9	850	7650	1.00	850.00	850.00	10.00	8500.00

536907-
KRIDL 10% 53690 7-
TOTAL - 590597 8=00
BLOOM 91330
599730 8=00

1402511=00
1402 51=00
1542762=00

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6854609
885461
7540070=00